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(71)Applicant : FUJITSU LTD

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(72)Inventor : ISONO OSAMU
NISHINO TETSUO
TACHIBANA TETSUO
HYODO RYUJI
MIYAMOTO NAOYUKI
OMURO KATSUMI

(54) ATM COMMUNICATION NETWORK

(57)Abstract:

PURPOSE: To prevent sophisticated communication service able to be served substantially by an ATM exchange network (broad area multimediuim information exchange or the like) from being hindered by constituting the network with a traffic control layer, an ATM exchange layer and a communication layer in existing between the layers and making transmission and reception of traffic control information.

CONSTITUTION: An ATM communication network at first is roughly classified into an ATM exchange layer 10 and a traffic control layer 20 to be brought into a form easily implemented by cell traffic control. The traffic control layer 20 manages each ATM exchange layer 11 of the ATM exchange layer 10 in the lump, monitors integrally a traffic of all cells in the ATM exchange layer 10 and gives a proper traffic control command to all ATM exchanges 11 based on the result of monitor. Thus, the network copes with a specific cell traffic in the ATM. Thus, the merit in high speed lots of multi-medium service expected in the ATM exchange is enjoyed without deteriorating the communication service quality.

